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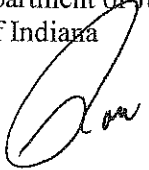
November 9, 2006

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UIC BRANCH  
EPA REGION 5

## MEMORANDUM

To: Service List (attached)  
USEPA, Underground Injection Control Branch (WU-16J)  
Alan Tenenbaum, U.S. Department of Justice  
Mary Ann Habeeb, State of Indiana

From: Ronald E. Hutchens, P.E. 

Subject: Progress Report No. 174  
October 1 through October 31, 2006  
Remedial Design/Remedial Action  
Midco I and II Sites, Gary, Indiana

## PROGRESS TOWARD IMPLEMENTING THE CONSENT DECREE

- Continued operation of the Midco I and II Sites' ground water extraction and treatment systems (GWETS) and injection of treated ground water.
- Conducted the Annual Mechanical Integrity Test for the Deep Well on October 6, 2006.
- Conducted the Annual Pressure Test on the Midco II Site to Midco I Site pipeline on October 5, 2006.
- Restarted dewatering within the containment barrier wall at the Midco I Site on October 9, 2006.
- Collected the monthly effluent samples from the Midco I and II Sites' ground water treatment system (GWTS) on October 18, 2006.
- Continued operations of the Midco I Site's soil vapor extraction (SVE) system and the Midco II Site's soil vapor extraction/air sparging (SVE/AS) system. Monthly monitoring of the Midco I Site's SVE system and the Midco II Site's SVE/AS system was performed the week of October 23, 2006.
- Submitted results the Annual Mechanical Integrity Test for the Deep Well on a letter dated October 24, 2006.
- Performed the Quarterly Midco II Air Sparge system ground water monitoring on October 30 and 31, 2006.

## MIDCO DEEP INJECTION WELL OPERATING CONDITIONS

- The daily maximum injection pressure, sight glass levels, and minimum differential between injection pressure and annulus pressure are summarized in Table 1. The operating flow rates at the Midco I and Midco II Sites' GWTS are presented in Figures 1 and 2, respectively. The daily maximum injection pressures and flow rates are presented in Figure 3. The daily sight glass levels are shown on Figure 4.

- Total volume of treated water injected:

	Midco I Site	Midco II Site	Deep Well Site
October	1,052,154	1,751,446	2,803,600
Year-to-Date	11,452,079	19,122,121	30,574,200
Total-to-Date	114,472,466	162,403,034	276,875,500

- Annulus system fluid removals - None
- Annulus system fluid additions - None
- Noncompliance occurrences - None

#### SYSTEM SHUTDOWNS

- Details of the Midco I and Midco II Sites' non-GWETS-related shutdowns, and the scheduled and non-scheduled GWETS-related shutdowns are summarized in Table 2.
- The Midco I Site had one non-GWETS-related shutdown. A power failure occurred on October 16 at 11:56 P.M. for 444 minutes. The Midco II Site had two non-GWETS-related shutdowns. Power failures occurred on October 2 at 10:15 P.M. for 545 minutes and on October 16 at 11:53 P.M. for 452 minutes.

#### SAMPLING AND TEST RESULTS

- The analytical results for the quarterly influent and monthly effluent samples collected on September 13, 2006 at the Midco I and II Sites, were received from the data validator on October 23, 2006. The validated analytical results are presented in Tables 3 through 10. The detected concentrations in the effluent samples were below the required maximum allowable concentrations (MACs).

#### PLANS AND PROCEDURES COMPLETED UNDER THE RD/RA PROJECT PLAN

- None during this reporting period.

#### ACTIVITIES TO BE CONDUCTED DURING NOVEMBER 2006

- Continue operation of the Midco I and II Sites' GWETS and injection of treated ground water.
- Continue operation of the Midco I Site's SVE system.
- Continue operation of the Midco II Site's SVE/AS system.
- Perform the annual capture zone study ground water level measurements at the Midco II Site.
- Revise and submit the various deliverables discussed with USEPA, IDEM, and Weston Solutions during the July 14, 2006 meeting.
- Complete revision/updating the Midco Schedules, which is under discussion with R. Boice.